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| Application/ | Control I | ۷ο. |
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09/912,458

Examiner

Diem K. Cao

Applicant(s)/Patent under Reexamination

CARRER ET AL.

Art Unit

2194

| <b>√</b> | Rejected |
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| =        | Allowed  |

| _ | (Through numeral)<br>Cancelled |
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| ÷ | Restricted                     |

| N | Non-Elected  |
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| ı | Interference |

| A | Appeal   |
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| Cla      | im   |   |          |              | _        | Date         | <u> </u>   |              |          |          |
| Final    |  | 12/8/05   |          |              |          |              |  |              |          |          |
| ├──      | n  | 1   |          |              |          |              |  |              |          |          |
|          | 2  | 1   |          |              |          |              |  |              |          |          |
|          | 3  | 1   |          |              |          | П            |  |              |          |          |
|          | 4  | 7   |          |              |          |              |  |              |          |          |
|          | 5  | 1   |          |              |          |              |  |              |          |          |
|          | 6  | 1   |          |              |          | L            |  |              |          |          |
| <u> </u> | 7  | 1   |          |              |          |              |  |              |          |          |
| <u> </u> | 8  | 7   | <u> </u> | <u> </u>     | _        | _            |  |              |          |          |
| <u> </u> | 9  | ٧.  |          | _            | _        | _            |  | _            | _        |          |
| <u> </u> | 43   | 7   | $\vdash$ | $\vdash$     |          |              |  | _            |          | _        |
|          | ₩  | J   | $\vdash$ | $\vdash$     | $\vdash$ | -            | $\vdash$   | -            |          | -        |
|          | 8<br>9<br>10<br>(11)<br>12<br>13                                 | i   | $\vdash$ |              |          |              | -  | _            | -        |          |
| $\vdash$ | 13<br>14<br>15<br>16<br>17<br>18<br>19<br>20<br>(21)<br>22<br>23 | 1   | -        |              | -        | Ħ            |  |              | Т        | _        |
|          | 15   | 1   |          |              |          | Г            | Г  |              |          |          |
|          | 16   | \<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\<br>\ |          |              |          |              |  |              |          |          |
|          | 17   | 4   |          |              |          |              |  |              |          |          |
|          | 18   | 4   |          |              |          |              |  |              |          |          |
| <u></u>  | 19   | 1   | _        |              |          |              |  |              | L        |          |
| <u></u>  | 20   | 1   | <u> </u> |              | <u> </u> |              | _  |              |          |          |
|          | (2)  | ٧,  | _        |              | ļ        | <u> </u>     | <u> </u>   |              | <u> </u> |          |
|          | 22   | ٧   | ├-       | _            | <u> </u> | <del> </del> | <u> </u>   |              | -        |          |
| <u> </u> | 23   | 1   |          | <u> </u>     | -        | ├            | -  |              | -        | _        |
| -        | 25   | V<br>J  | ⊢        |              | $\vdash$ | $\vdash$     | $\vdash$   | _            | -        | _        |
|          | 24<br>25<br>26   | Ì   | ┢        | $\vdash$     | $\vdash$ | ╁─           | _  | _            |          | $\vdash$ |
| <u> </u> | 27   | 1   | $\vdash$ | -            | $\vdash$ | ┢            | <del>                                     </del> |              | $\vdash$ | -        |
|          | 28   | 1   |          |              |          |              |  |              | _        |          |
|          | 28<br>29<br>30<br>31<br>32<br>(33)                               | 1   |          |              |          | <u> </u>     | Г  |              | _        |          |
|          | 30   | 1   |          |              |          | Ì            |  |              |          |          |
|          | 31   | 1   |          |              |          |              |  |              |          |          |
|          | 32   | 1   |          |              |          |              |  |              |          |          |
| <u> </u> | (33)   | ٧   | <u> </u> |              | <u> </u> | <u> </u>     | L  |              |          |          |
| <u></u>  | 34   | <u> </u>  | _        | ļ            | <u> </u> | ⊢-           | $\vdash$   | <u> </u>     | <u> </u> | $\vdash$ |
| $\vdash$ | 35   | $\vdash$  | _        | <u> </u>     | L        | ├-           | <u> </u>   | <u> </u>     | <u> </u> | H        |
| ⊢        | 36<br>37   | <del> </del>  | $\vdash$ | -            | $\vdash$ | $\vdash$     | <u> </u>   | $\vdash$     | _        | $\vdash$ |
| <u></u>  | 38   | $\vdash$  | $\vdash$ | $\vdash$     | -        | ├-           | -  | $\vdash$     |          | -        |
| <b>-</b> | 39   | $\vdash$  | $\vdash$ | -            | $\vdash$ | -            | -  | $\vdash$     | -        | $\vdash$ |
|          | 40   | $\vdash$  | $\vdash$ |              | $\vdash$ | H            | $\vdash$   | $\vdash$     | $\vdash$ | H        |
|          | 41   | Н   | $\vdash$ | _            | $\vdash$ |              |  | <del> </del> |          |          |
|          | 42   |   | Г        |              |          | Τ            | _  |              |          |          |
|          | 43   |   |          |              |          |              |  |              |          |          |
|          | 44   |   |          |              |          |              |  |              |          |          |
|          | 45   |   |          |              |          |              | $\Box$   |              | Ĺ        |          |
| -        | 46   | _   | L        |              | <u> </u> |              | _  | <u> </u>     | <u> </u> | _        |
| <b>—</b> | 47   | <u> </u>  | _        | <b> </b>     | _        | _            | _  | _            | <u> </u> | _        |
| <b></b>  | 48   | ├-  | ⊢        | <del> </del> | -        | <del> </del> | $\vdash$   |              |          | <u> </u> |
| <u> </u> | 49<br>50   | $\vdash$  | ⊢        | ⊢            | ⊢        | -            | -  | ⊢            | <u> </u> | $\vdash$ |
| Ц        | l 50   | Ц.  | L_       | Щ            |          | L            |  | L_           | <u> </u> | L        |

| Cla          | im             | Date   |                    |                                     |              |                    |   |          |                |  |
|--------------|----------------|--|--------------------|-------------------------------------|--------------|--------------------|---|----------|----------------|--|
|              |                |  |                    |                                     |              |                    |   |          |                |  |
| <del>-</del> | Original       |  |                    |                                     |              |                    |   |          |                |  |
| Final        | įĝ             |  |                    |                                     |              |                    |   |          |                |  |
| ۳ ا          | ō              |  |                    |                                     |              |                    |   |          |                |  |
|              |                | -  |                    | ├                                   | _            | $\vdash$           | $\vdash$  | _        | _              |  |
| <u> </u>     | 51             | -  | _                  | -                                   |              | _                  | <u> </u>  | _        |                |  |
| <u> </u>     | 52<br>53       |  | <u> </u>           | $\vdash$                            |              | <u> </u>           | <u> </u>  |          |                |  |
| ļ            | 53             | _  | <u> </u>           | $\vdash$                            | _            | _                  | _   |          |                |  |
| <u> </u>     | 54<br>55       | L  | _                  |                                     |              | _                  | _   |          | _              | _  |
|              | 55             | -  | <u> </u>           |                                     |              | <u> </u>           |   | _        |                |  |
|              | 56             | L  |                    | L                                   |              | _                  |   |          |                |  |
| <u> </u>     | 57<br>58       |  |                    | L                                   |              |                    |   |          | _              |  |
|              | 58             | _  | <u> </u>           | <u> </u>                            | <u> </u>     | <u> </u>           | <u> </u>  |          |                |  |
|              | 59             |  | <u></u>            | L_                                  |              | <u> </u>           | <u> </u>  |          |                |  |
|              | 60             |  | L                  | L                                   | L            | L                  | $ldsymbol{ley}}}}}}}$ |          |                |  |
|              | 61             | <u> </u>   | L                  | <u>L</u>                            | L            |                    |   |          | <u>L</u>       |  |
|              | 62             |  |                    | L.                                  | <u>L</u>     | L                  |   |          | $oxed{oxed}$   |  |
|              | 63             |  |                    |                                     |              |                    |   |          |                |  |
|              | 64             |  |                    |                                     |              |                    |   |          |                |  |
|              | 65             |  |                    |                                     |              |                    |   |          |                |  |
|              | 66             |  |                    |                                     |              |                    |   |          |                |  |
|              | 67             |  |                    |                                     |              |                    |   |          |                |  |
|              | 68             |  |                    |                                     |              |                    |   |          |                |  |
|              | 69             |  |                    |                                     | Г            | $\vdash$           |   | _        |                |  |
|              | 70             | $\vdash$   |                    | _                                   | $\vdash$     |                    | $\vdash$  |          |                | $\vdash$   |
|              | 71_            |  |                    |                                     |              | Т                  | ┪   |          | _              |  |
| $\vdash$     | 72             | -  | -                  | ╁                                   | $\vdash$     | $\vdash$           | <del>                                     </del>  | _        | $\vdash$       | $\vdash$   |
| <b>-</b>     | 73             | <del>                                     </del> | $\vdash$           | $\vdash$                            | -            | ┢                  | -   |          | $\vdash$       | <del>                                     </del> |
|              | 73<br>74<br>75 | -  | $\vdash$           | ⊢                                   | -            | ┢                  | -   | _        |                | $\vdash$   |
| <u> </u>     | 75             | -  | ├─                 | ⊢                                   | $\vdash$     | ⊢                  | ┢   | -        | -              | $\vdash$   |
| <del> </del> | 76             | -  | -                  | ┢                                   | $\vdash$     | ⊢                  | ⊢   | -        | ┝              | ┢  |
|              | 76<br>77<br>78 | -  | -                  | -                                   | -            | ┢                  | ⊢   | _        | -              | -  |
|              | 70             | $\vdash$   | $\vdash$           | -                                   | -            | ⊢                  | ┝   | _        | <del> </del>   | ┢  |
|              | 79             | -  | $\vdash$           | $\vdash$                            | ┢            | ├                  | ├─  | -        | ├─             | ├─   |
|              | 80             |  | -                  | ┢                                   | ┝            | ⊢                  | ┝   | H        | -              |  |
|              |                | -  | -                  | -                                   | -            | $\vdash$           | ├—  | $\vdash$ | $\vdash$       | $\vdash$   |
|              | 81             | <del> </del>                                     | ├-                 |                                     |              | -                  | ├-  | $\vdash$ | $\vdash$       | $\vdash$   |
|              | 82<br>83       |  | -                  | ⊢                                   |              | $\vdash$           | -   | <u> </u> | ┝              | $\vdash$   |
|              | 83             | -  |                    | ⊢                                   | -            | ⊢                  | ⊢   | -        |                | -  |
|              | 84             | $\vdash$   | ⊢                  | $\vdash$                            | <del> </del> | -                  | $\vdash$  | <u> </u> | ├-             | ├-   |
|              | 85             | -  | $\vdash$           | <u> </u>                            | <del> </del> |                    | ├   | $\vdash$ | <del> </del> — |  |
|              | 86             | ₩  | $\vdash$           | <u> </u>                            | <u> </u>     | <del> </del>       | <u> </u>  | $\vdash$ | <del> </del> — | <u> </u>   |
|              | 87             | <u> </u>   | <b>-</b>           | <u> </u>                            | ⊢            | <u> </u>           | ⊢   | ļ        | <del> </del>   | <u> </u>   |
|              | 88             | <del> </del>                                     | <del> </del>       | <del> </del>                        | <del> </del> | <u> </u>           | <b> </b>  | <u> </u> | <u> </u>       | $\vdash$   |
| L            | 89             | L_   | <u> </u>           |                                     | <u> </u>     | ऻ_                 | <u> </u>  | ļ        | <u> </u>       | ┞_   |
| <u> </u>     | 90             | _  | $\vdash$           | <u> </u>                            | <u> </u>     | <del> </del>       | <u> </u>  | _        | <del>  _</del> | <u> </u>   |
|              | 91             | <u> </u>   | <u> </u>           | <u> </u>                            | <u> </u>     | _                  | <u> </u>  |          |                | ļ  |
| L            | 92             |  | <u> </u>           |                                     | <u> </u>     | <u> </u>           | <u> </u>  | <u> </u> | <u> </u>       | <u> </u>   |
|              | 93             | <u> </u>   | <u> </u>           | <u> </u>                            | ldash        | <u> </u>           | 1_  | <u> </u> | <u> </u>       | <u> </u>   |
|              | 94             | L.   | L                  | L_                                  | L            | <u> </u>           | L_  | <u> </u> | <u> </u>       | _  |
|              | 95             | L  | oxdot              | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | L            | <u> </u>           |   | _        |                |  |
|              | 96             |  |                    | L                                   |              | <u></u>            | <u></u>   | <u> </u> | _              | L_   |
|              | 97             | $oxedsymbol{oxed}$                               | $oxedsymbol{oxed}$ |                                     | _            | $oxedsymbol{oxed}$ |   | _        | $\Box$         |  |
|              | 98             |  | L                  |                                     |              | L                  |   | L        | L              |  |
|              | 99             |  |                    |                                     |              |                    |   |          |                |  |
|              | 100            |  | $\Box$             |                                     |              |                    |   |          |                |  |
|              |                | -  |                    |                                     |              |                    |   |          |                |  |

| EE         EE           DO         101           102         103           104         105           106         107           108         109           110         111           112         113           113         114           115         116           117         118           119         120           121         122           123         124           125         126           127         128           129         130           131         132           133         134           135         136           137         138           139         140  | Claim | Date            |         |  |  |                                     |          |  |  |                |
|---|-------|-----------------|---------|--|--|-------------------------------------|----------|--|--|----------------|
| 101   |       | $\top$          |         | Т                                      |  |                                     |          |  |  |                |
| 102   103   104   105   106   107   108   109   110   111   112   113   114   115   116   117   118   119   120   121   122   123   124   125   126   127   128   129   130   131   132   133   134   135   136   137   136   137   136   137   136   137   136   137   136   137   136   137   136   137   136   137   136   137   106   107   108 | Final |                 | Origina |  |  |                                     |          |  |  |                |
| 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137   | 10    |                 | 101     |  |  |                                     |          |  |  |                |
| 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137   | 10    | _               | 102     | 1_                                     |  |                                     | _        |  |  | ᆜ              |
| 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137   | 10    |                 | 103     | -                                      | $\vdash$   |                                     | -        |  |  | $\blacksquare$ |
| 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137   | - 10  |                 | 104     | 4—                                     | $\vdash$   |                                     | _        |  |  |                |
| 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137   | 10    |                 | 105     | ╁                                      | H  | _                                   |          |  |  | $\dashv$       |
| 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137   | 10    | $\dashv$        | 107     | ╁╾                                     | -  |                                     | Н        |  |  |                |
| 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137   | 10    | +               | 108     | +-                                     | H  | _                                   | -        |  |  | $\dashv$       |
| 112<br>113<br>114<br>115<br>116<br>117<br>118<br>119<br>120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137  | 10    | $\neg$          | 109     | +                                      | 1  |                                     |          |  |  | $\neg$         |
| 112<br>113<br>114<br>115<br>116<br>117<br>118<br>119<br>120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137  | 1     |                 | 110     |  |  |                                     |          |  |  |                |
| 112<br>113<br>114<br>115<br>116<br>117<br>118<br>119<br>120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137  | 1     |                 | 111     |  |  |                                     |          |  |  |                |
| 116<br>117<br>118<br>119<br>120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>131<br>132<br>133<br>134<br>135<br>136<br>137   | 111   |                 | 1112    |  |  |                                     |          |  |  |                |
| 116<br>117<br>118<br>119<br>120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>131<br>132<br>133<br>134<br>135<br>136<br>137   | 1     | $\perp$         | 113     | -                                      |  |                                     |          |  |  | $\Box$         |
| 116<br>117<br>118<br>119<br>120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>131<br>132<br>133<br>134<br>135<br>136<br>137   | 1     | _               | 114     | -                                      | $\vdash$   |                                     |          |  |  | $\dashv$       |
| 117   | 1     | +               | 115     | ╁                                      | ┢  |                                     |          |  |  |                |
| 118   | 1.    | +               | 117     | +                                      | <del>                                     </del> |                                     |          | _  |  | $\dashv$       |
| 120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137  | 1     | -               | 118     | +                                      | <del> </del>                                     | ┢                                   | _        | -  | $\vdash$   | Н              |
| 120<br>121<br>122<br>123<br>124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137  | 1     | $\dashv$        | 119     | $\top$                                 | <del>                                     </del> | $\vdash$                            |          |  |  |                |
| 121   | 11    |                 | 120     |  |  |                                     |          |  |  |                |
| 124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137  | 1:    |                 | 121     |  |  |                                     |          |  |  |                |
| 124<br>125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133<br>134<br>135<br>136<br>137  | 1:    | _               | 122     | _ _                                    | <u> </u>   | _                                   |          |  | $ldsymbol{ld}}}}}}$ |                |
| 134<br>135<br>136<br>137  | 1:    |                 | 123     | _                                      | <u> </u>   | _                                   |          |  |  |                |
| 134<br>135<br>136<br>137  | 1:    |                 | 124     | +-                                     | ├  | <u> </u>                            |          |  |  | Н              |
| 134<br>135<br>136<br>137  | 14    | -               | 125     | +-                                     | ļ -  | ┝╌                                  |          |  |  | -              |
| 134<br>135<br>136<br>137  | 1     | $\dashv$        | 127     | +                                      | <del>                                     </del> | $\vdash$                            |          | _  |  | Н              |
| 134<br>135<br>136<br>137  | 1:    | $\top$          | 128     | +                                      | <u> </u>   | $\vdash$                            |          |  |  |                |
| 134<br>135<br>136<br>137  | 1:    |                 | 129     | <b></b>                                | i  | -                                   |          |  |  |                |
| 134<br>135<br>136<br>137  | 1:    |                 | 130     |  |  |                                     |          |  |  |                |
| 134<br>135<br>136<br>137  | 1:    |                 | 131     |  |  |                                     |          |  |  |                |
| 134<br>135<br>136<br>137  | 1;    |                 | 132     | _                                      | <u> </u>   | <u> </u>                            | _        |  |  |                |
| 135<br>136<br>137   | 1;    |                 | 133     | -                                      | <u> </u>   | <u> </u>                            | ļ        |  |  | Ш              |
| 136<br>137<br>138   | 1,    |                 | 134     | +                                      | ├  | _                                   | -        |  | _  | Н              |
| 137<br>138  | 11.   |                 | 136     | ╁                                      | ╁╾   | -                                   |          | -  | -  | Н              |
| 138   | 1:    | $\dashv$        | 137     | +-                                     | -  | $\vdash$                            | H        | _  |  |                |
|   | 1;    |                 | 138     | 1                                      | t  | H                                   |          |  |  |                |
| 139   | 1;    | $\top$          | 139     | T                                      | T  |                                     |          |  |  |                |
| 140   | 1     |                 | 140     |  |  |                                     |          |  |  |                |
| 141   | 14    |                 | 141     | ļ                                      |  |                                     |          |  |  |                |
| 142   |       |                 |         | ــــــــــــــــــــــــــــــــــــــ | <u> </u>   | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | L        | L  | L.   | $\square$      |
| 143   |       | -               |         | +                                      | ├-   | _                                   | L        |  | H  | $\vdash$       |
| 144   |       |                 |         | +-                                     | ├  | <u> </u>                            |          | -  | H  | $\vdash$       |
| 145   |       |                 |         | +                                      | ├  | -                                   | ├        | <u> </u>   | -  | Н              |
| 147   |       |                 |         | +                                      | $\vdash$   | $\vdash$                            | $\vdash$ | ├  |  | $\vdash$       |
| 148   |       | $\dashv$        |         | +                                      | $t^-$  | $\vdash$                            | $\vdash$ | <del>                                     </del> | Г  | $\vdash$       |
| 149   |       | $\neg \uparrow$ |         | $\top$                                 |  |                                     |          |  |  |                |
| 150   |       | $\Box$          |         |  | <u> </u>   |                                     |          |  |  |                |